






STABLE EMULSIONS, PREPARATION METHODS AND APPLICATIONS**Publication number:** WO9947589 (A1)**Publication date:** 1999-09-23**Inventor(s):** CREPEAU COLETTE [FR]; HOERNER PIERRE [FR]; RIESS GERARD [FR]**Applicant(s):** HUTCHINSON [FR]; CREPEAU COLETTE [FR]; HOERNER PIERRE [FR]; RIESS GERARD [FR]**Classification:**

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Abstract of WO 9947589 (A1)

The invention concerns stable emulsions, a method for preparing said emulsions and the elastomer films containing them. Said stable emulsions of at least one chemical substance x in an elastomer solution, to be used for preparing an elastomer film, comprise (1) a phase A containing an elastomer dissolved in an organic apolar or slightly polar solvent a , wherein is dispersed (2) a phase B containing at least said chemical substance x , in solution or dispersed in a polar solvent b , non-miscible with phase A and (3) at least a dispersing agent selected from the group consisting of block or grafted polymers. Said emulsions are characterised in that the dispersed phase B droplets have a diameter $\geq 10 \mu\text{m}$; said emulsion comprises, for stabilising said dispersed phase B, besides at least one dispersing copolymer comprising poly A sequences, compatible with phase A and poly B sequences compatible with phase B, at least a particulate stabiliser selected from the group consisting of solid organic compounds of dimension ranging between 30 nm and $10 \mu\text{m}$ or solid mineral compounds of dimension ranging between 5 nm and $10 \mu\text{m}$, whereof the surface state is organophilic; the mass fraction ϕ_B of the dispersed phase (phase B) in the emulsion ranges between 0.01 and 0.2; the mass fraction of block or grafted copolymers, ϕ_{CD} , expressed relative to dispersed phase B ranges between 0.001 and 0.3, preferably between 0.01 and 0.2 and the mass fraction of particulate stabiliser (SP), ϕ_{SP} , expressed relative to dispersed phase B ranges between 0.001 and 0.5.

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